# ST-606/606M

# SERVICE MANUAL

*UK Model*
ST-606
*AEP Model*
ST606M

- ST-606 is the FM STEREO/ FM-AM TUNER in FH-606.
- ST-606M is the FM STEREO/ FM-AM TUNER in MHC-1000.

## SPECIFICATIONS

System: FM stereo, FM/AM superheterodyne tuner
Quartz-locked PLL digital synthesizer system

**FM tuner section**

Tuning range: 87.5 to 108 MHz
Antenna **(ST-606)**: Telescopic antenna
Antenna terminals: 75 ohms unbalanced
Intermediate frequency: 10.7 MHz
Usable sensitivity: 2.3 μV (S/N = 30 dB/75 ohms)

**MW/LW tuner section**

| | | MW | LW |
|---|---|---|---|
| Tuning range | | 531 – 1602 kHz (except Italian model) 522 – 1611 kHz (for the Italian model) | 153 – 281 kHz (except Italian model) 144 – 288 kHz (for the Italian model) |
| Antenna | | Built-in ferrite bar antenna External antenna terminal | |
| Usable sensitivity | Built-in ferrite bar antenna | 250 μV/m (999 kHz) | 500 μV/m (230 kHz) |
| | External antenna | 100 μV (999 kHz) | 150 μV (230 kHz) |

**General**

Dimensions:
**ST-606:**
Approx. 220 × 55 × 240 mm (w/h/d) (8¾ × 2¼ × 9½ inches)
**ST-606M:**
Approx. 245 × 55 × 240 mm (w/h/d) (9¾ × 2¼ × 9½ inches)
incl. projecting parts and controls

Weight: Approx. 1.0 kg (2 lb 4 oz) net

MICROFILM

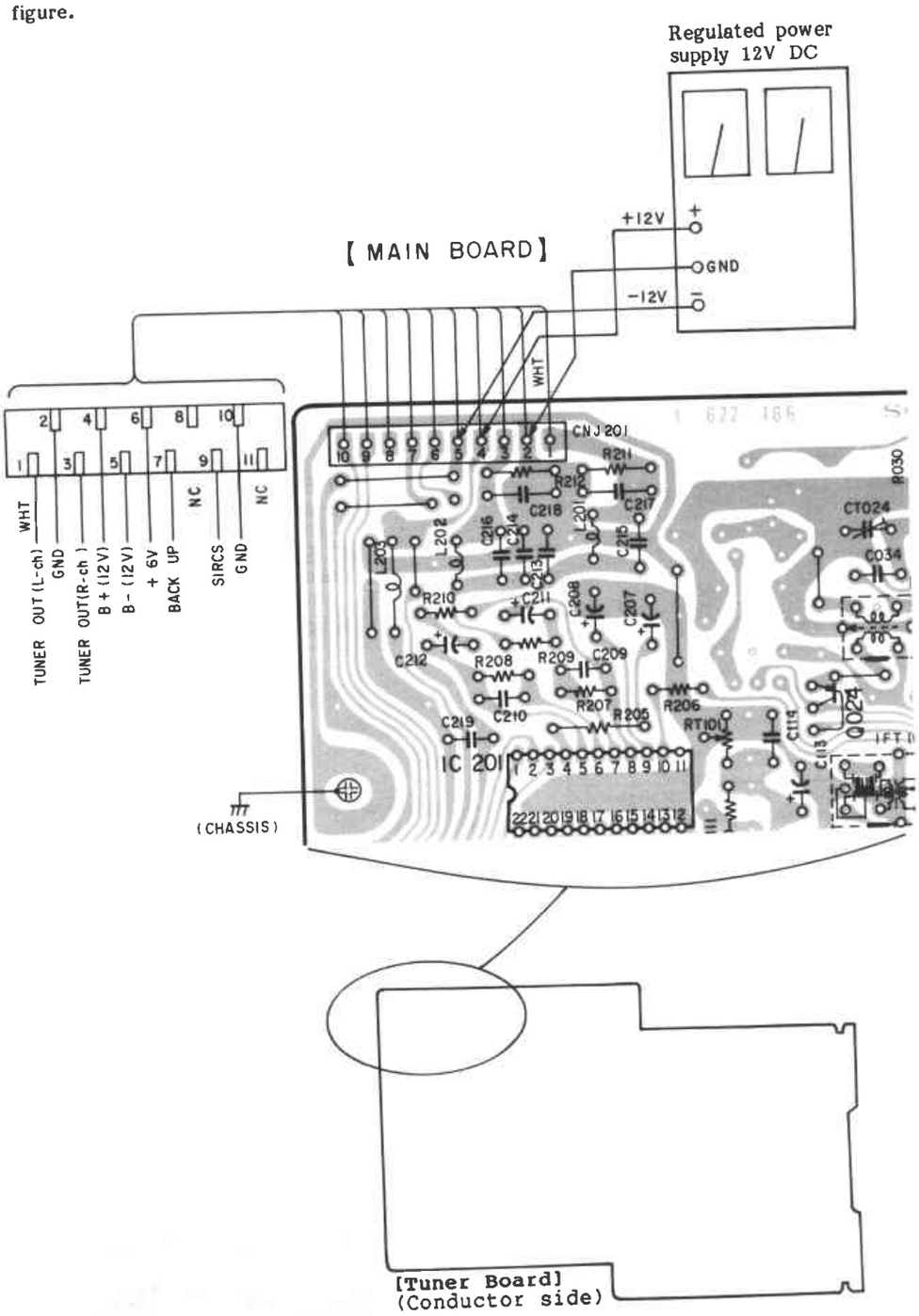
FM STEREO/FM-AM TUNER

SONY®

## REPAIRING PRECAUTION

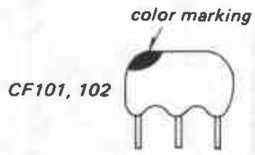
**[To apply B+voltage]**

The power of this units is fed from other unit.
When the unit operates individually, connect the regulated power supply to the point as shown in the below figure.



**Note on Ceramic Filter (CF101, 102) Replacement and Diode D314, 315 Connection.**

This set employs two ceramic filters (CF101, 102) which should have the same color marking to identify their center frequency. Therefore FM IF offset adjustment by diodes (D314, 315) connection is necessary to match the center frequency of the ceramic filters used with FM intermediate frequency.




○: connect
×: not connect

| Ceramic filter | | D314, 315 connection | | FM intermediate frequency (MHz) |
|---|---|---|---|---|
| Color mark | Center frequency (MHz) | ※A (D314) | ※B (D315) | |
| White | 10.750 | ○ | × | 10.750 |
| Red | 10.700 | × | × | 10.700 |
| Black | 10.650 | × | ○ | 10.650 |

FM intermediate frequency is determined by the three types as shown above. Ceramic filters of same center frequency, i.e., of same color coding should be used for CF101 and CF102.

When replacing the ceramic filters, perform the FM Discriminator Adjustment.

**WARNING !!**

**ADVARSEL!**
Lithiumbatteri – Eksplosionsfare
Udskiftning må kun foretages af en sagkyndig, og som beskrevet i servicemanualen.

**LITHIUM BATTERY**

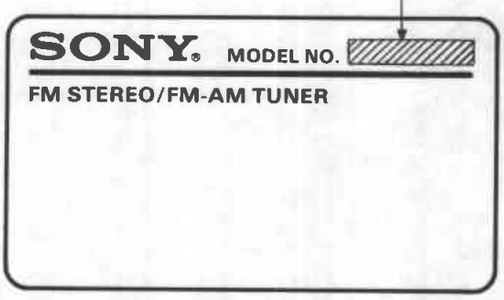
SHOULD ONLY BE CHANGED BY TECHNICAL PERSONNEL. THERE IS A RISK FOR EXPLOSION AT A WRONG HANDLING.

"Batteriet må kun udskiftes med et batteri af samme fabrikat og type".

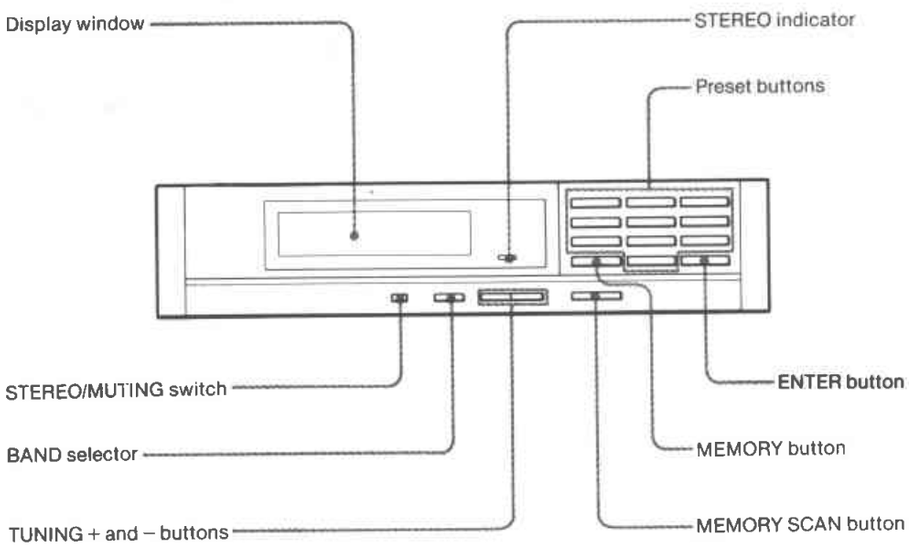
Because of the risk for explosion the battery must be replaced with the same type and manufacture.

**MODEL IDENTIFICATION**

**ST-606**
**ST-606M**



## PARTS IDENTIFICATION



# SECTION 1
# ELECTRICAL ADJUSTMENTS

## FM SECTION

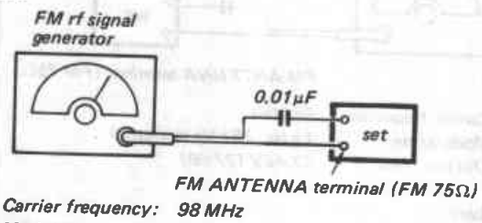
**Setting:**

BAND selector switch: FM

**Note:** FM discriminator alignment should be made after FM tracking adjustment.

### FM Tracking Adjustment

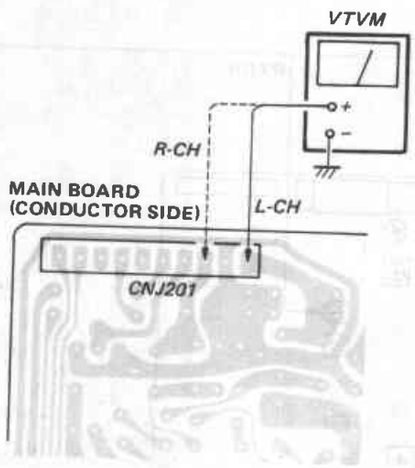
**Setting:**




*Carrier frequency:* 98 MHz
*Modulation:* 1 kHz, 75 kHz deviation
*Output level:* 3.16μV (10 dB)

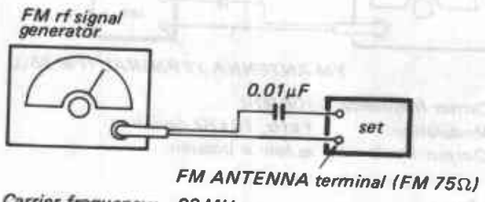
**Procedure:**

1. Push TUNING (+, –) button for 98 MHz.
2. Approach L002 and L003 not to contact each other.
3. Adjust L001 and L003, and repeat the adjustment 2 – 3 times for maximum VTVM reading.

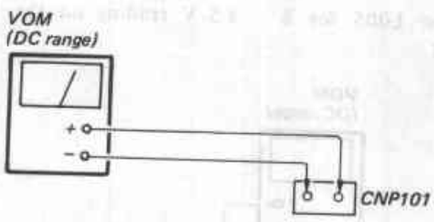



### FM Discriminator Alignment (NULL Check)

**Setting:**

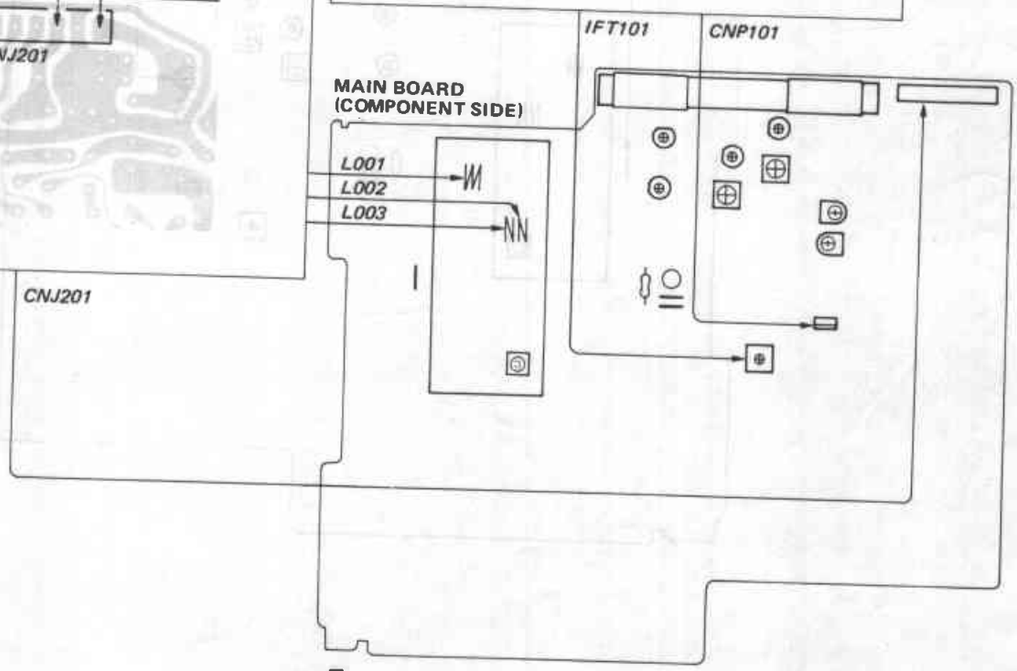



*Carrier frequency:* 98 MHz
*Modulation:* 1 kHz, 75 kHz deviation
*Output level:* 1 mV (60 dB)



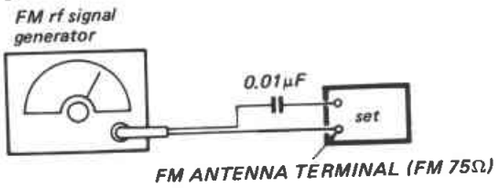

**Procedure:**

1. Push the TUNING (+, –) button for 98 MHz.
2. Adjust IFT101 for 0 V reading on the VOM.



## FM OSC Voltage Adjustment

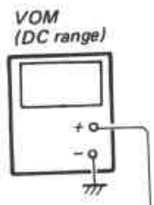
**Setting:**




*Carrier frequency:* 108 MHz
*Modulation:* 1 kHz, 75 kHz deviation
*Output level:* as low as possible

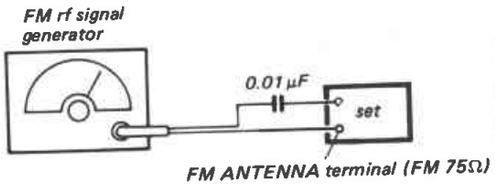
**Procedure:**

1. Push the TUNING (+, –) button for 108 MHz.
2. Adjust L005 for 8 – 8.5 V reading on the VOM.




## FM TUNED Indication Lighting Level Adjustment

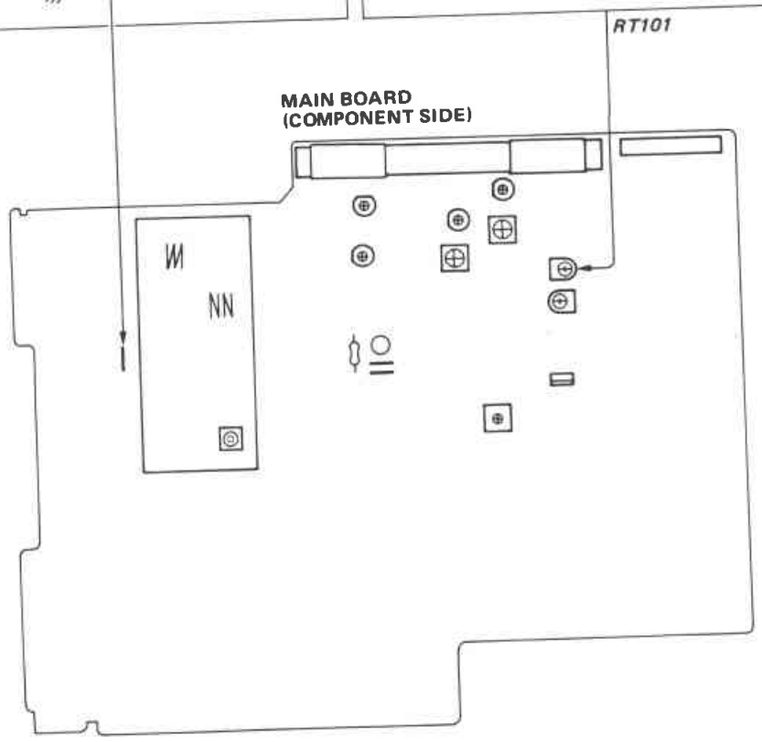
**Setting:**




*Carrier frequency:* 98 MHz
*Modulation:* 1 kHz, 75 kHz deviation
*Output level:* 22.4μV (27 dB)

**Procedure:**

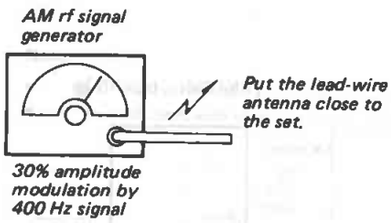
1. Confirm that the MUTING indicator lights up on the display window.
2. Tune the set to 98 MHz.
3. Adjust RT101 so that the TUNED indicator goes on.



## AM SECTION

**Setting:**

BAND selector switch: MW or LW

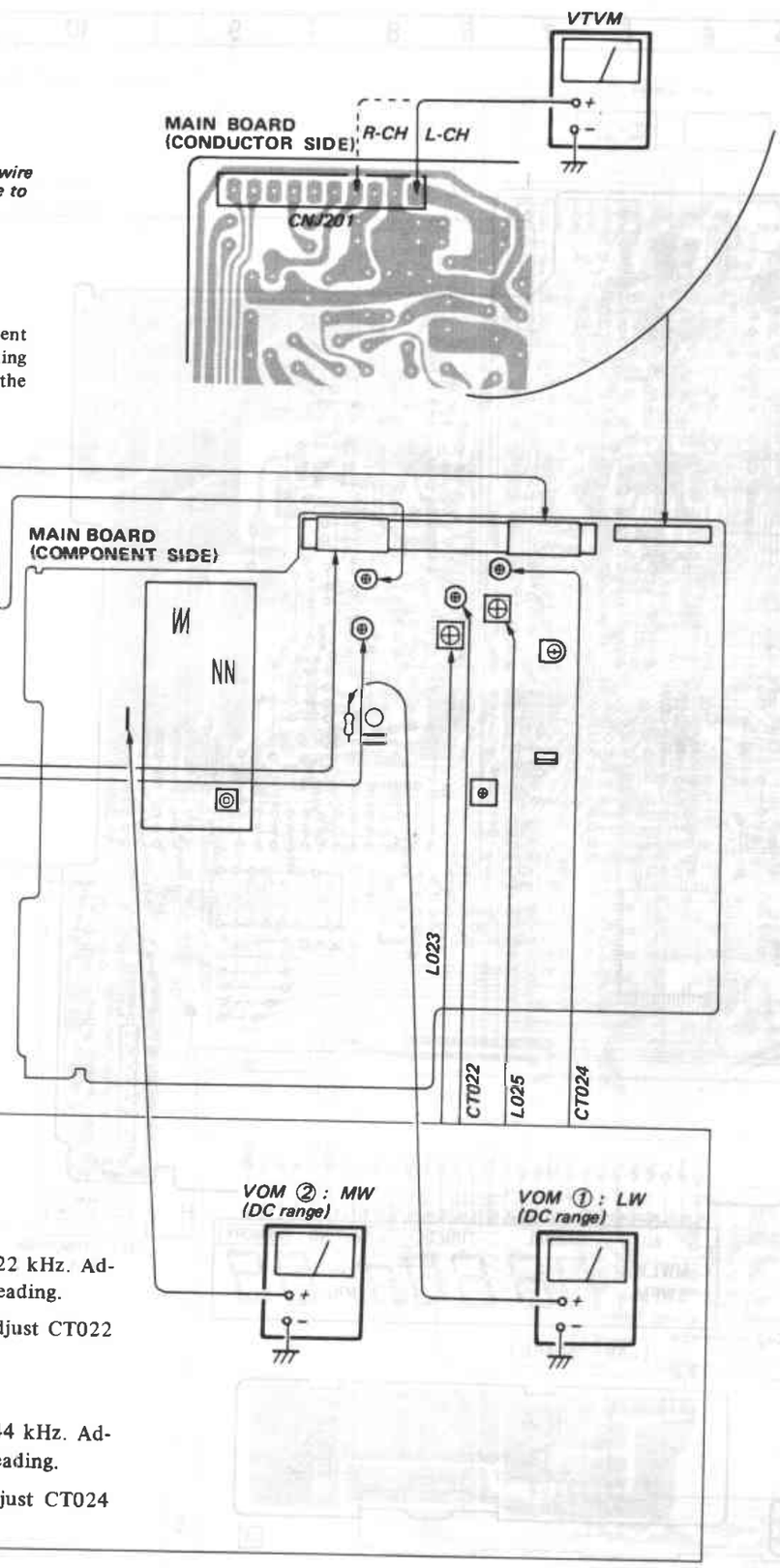



- Repeat the procedures in each adjustment several times, and the OSC voltage and tracking adjustments should be finally done by the trimmer capacitors.

- **Perform after LW TRACKING ADJUSMENT.**

| MW TRACKING ADJUSTMENT | |
|---|---|
| Adjust for a maximum reading on VTVM. | |
| 603 kHz | L022 |
| 1,404 kHz | CT021 |

| LW TRACKING ADJUSTMENT | |
|---|---|
| Adjust for a maximum reading on VTVM. | |
| 162 kHz | L022 |
| 270 kHz | CT023 |

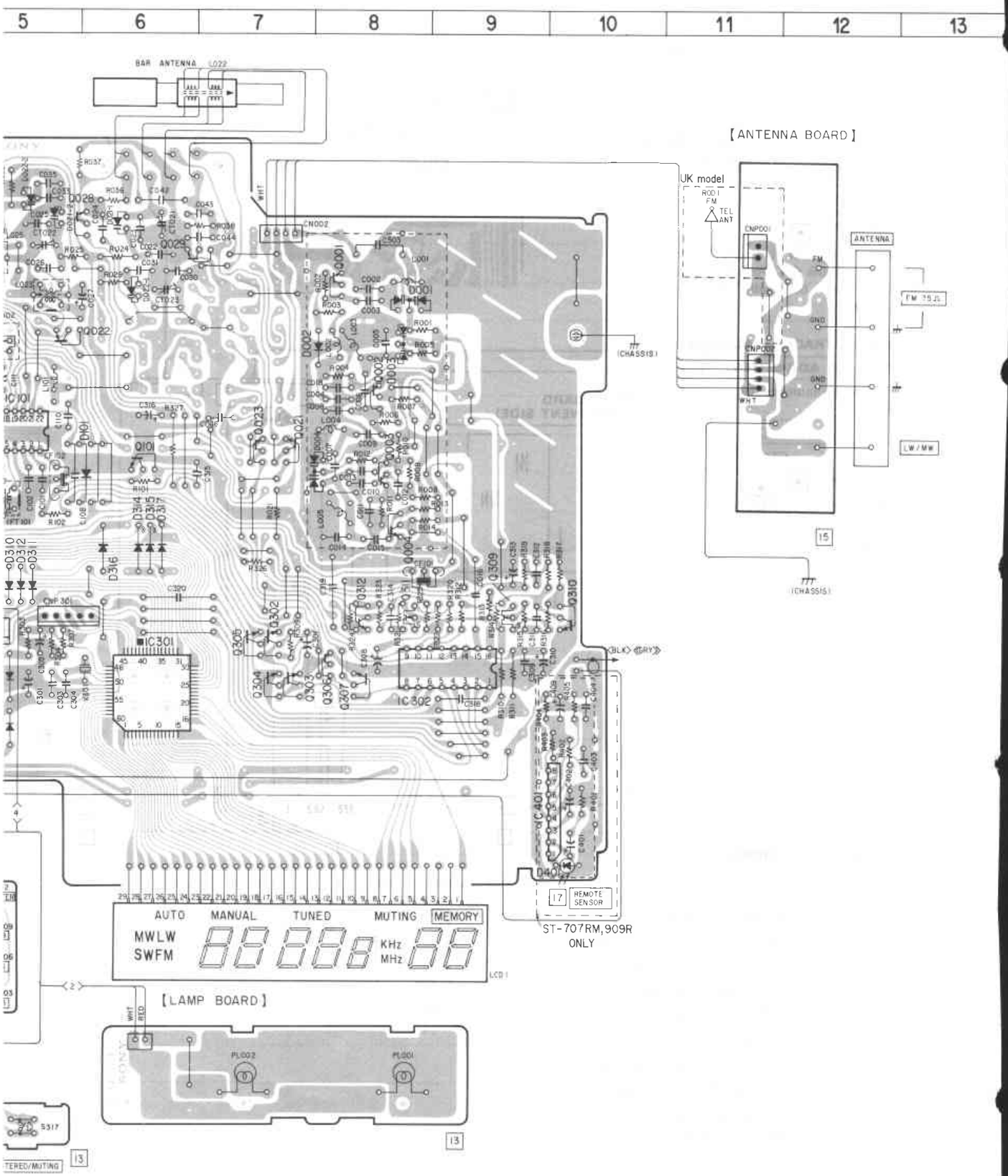



### MW/LW OSC Voltage Adjustment

**Procedure:**

1. Set BAND selector switch to MW.
2. Push TUNING (+, –) button for 522 kHz. Adjust L023 for 1 – 1.1 V VOM ② reading.
3. Push the button for 1,611 kHz. Adjust CT022 for 8 – 8.5 V VOM ② reading.
4. Set BAND selector switch to LW.
5. Push TUNING (+, –) button for 144 kHz. Adjust L025 for 1 – 1.1 V VOM ① reading.
6. Push the button for 288 kHz. Adjust CT024 for 8 – 8.5 V VOM ① reading.

## MEMO


5
6
7
8
9
10
11
12
13
BAR ANTENNA
【ANTENNA BOARD】
UK model
ROD1
FM
TEL ANT
CNP001
ANTENNA
FM
GND
GND
FM 75Ω
LW/MW
CNP002
WHT
15
(CHASSIS)
(CHASSIS)
CNO02
WHT
IC101
IC301
IC302
(BLK)
(GRY)
17
REMOTE SENSOR
ST-707RM,909R ONLY
AUTO
MANUAL
TUNED
MUTING
MEMORY
MWLW
SWFM
KHz
MHz
LCD1
【LAMP BOARD】
WHT
RED
PL002
PL001
13
TERED/MUTING
13

# SECTION 2
# DIAGRAMS

## 2-1. PRINTED WIRING BOARDS

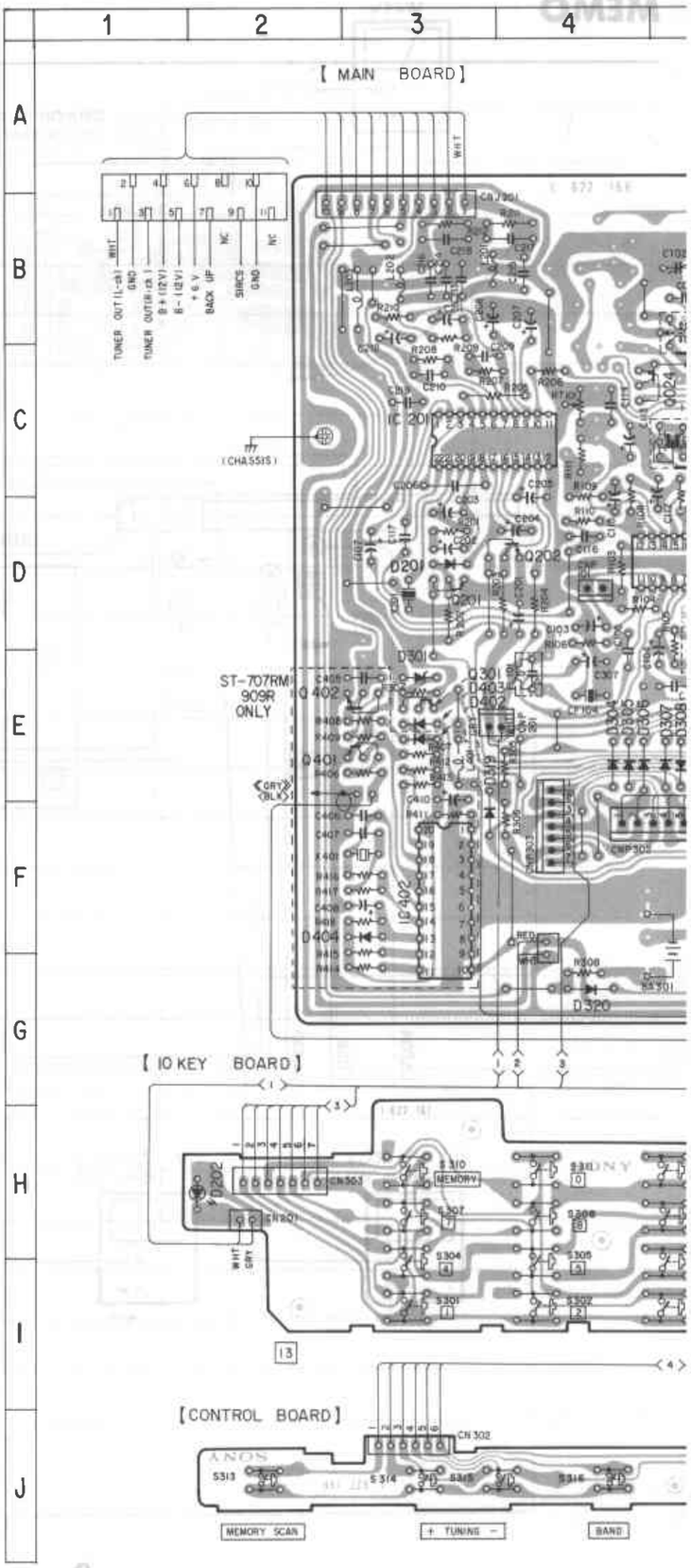
. See page 14 for Semiconductor Lead Layouts.

**Note:**

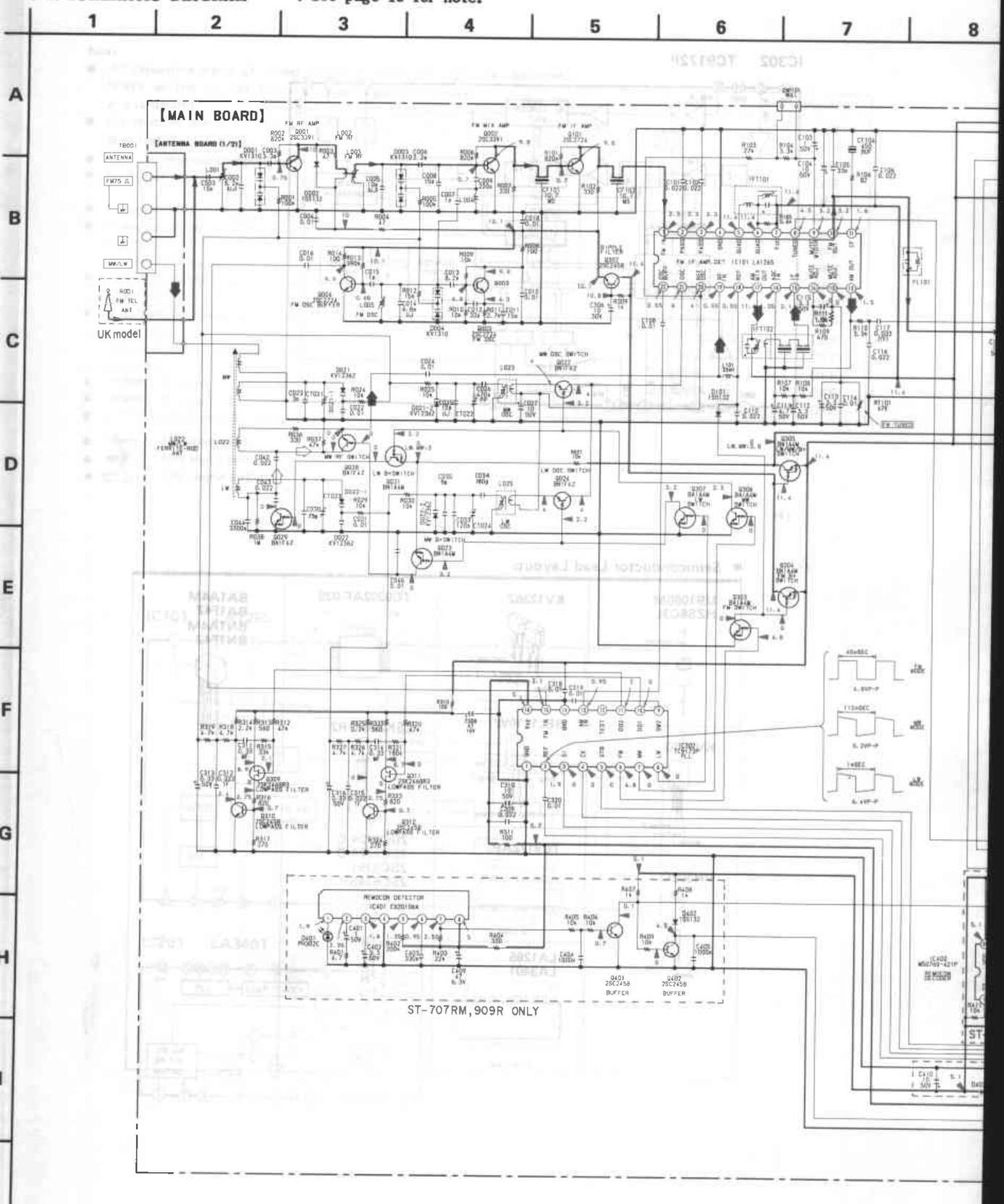
- ■ : parts mounted on the conductor side.
- ⊡ indicates side identified with part number.

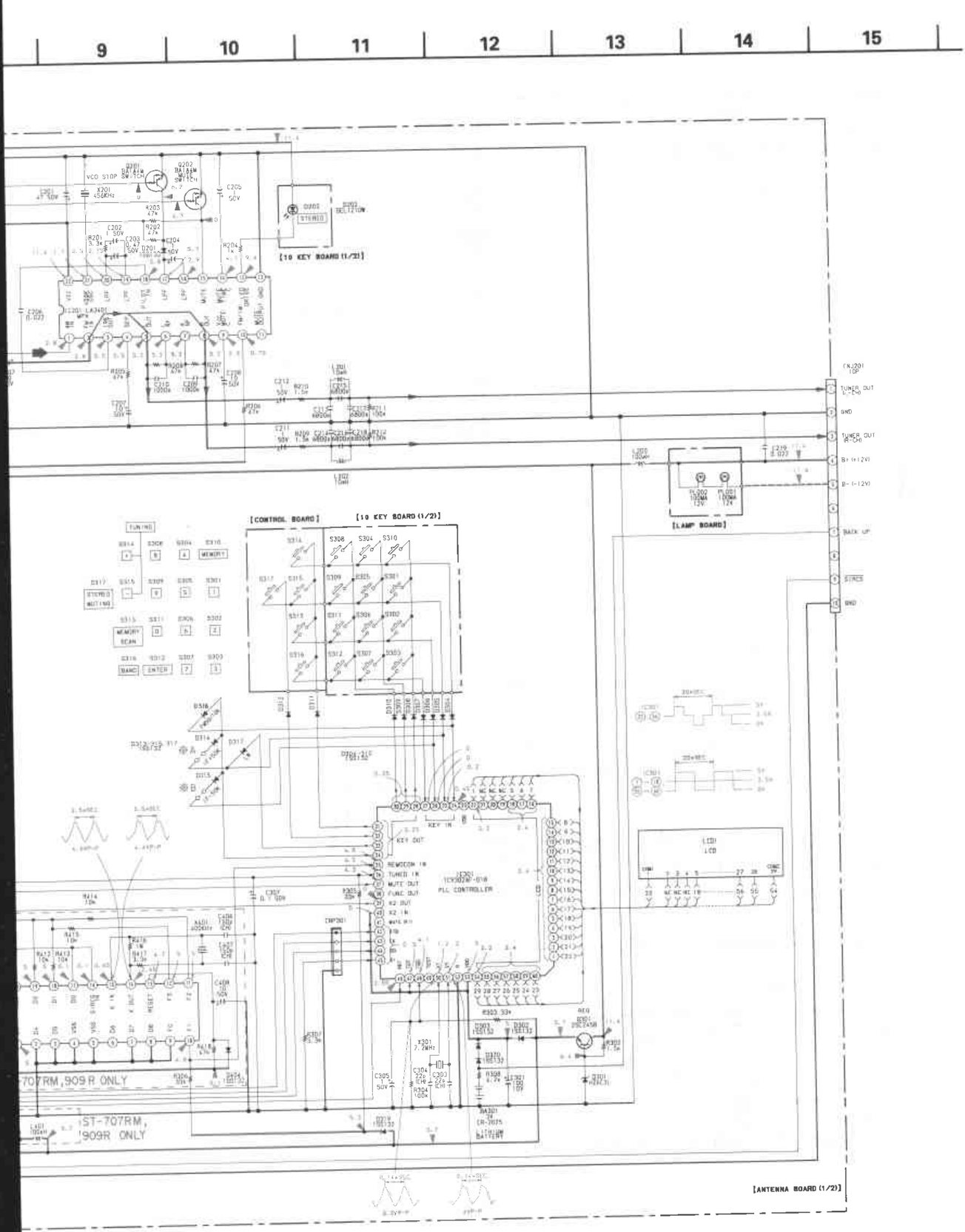
### . Semiconductor Location

| Ref. No. | | Ref. No. | |
|---|---|---|---|
| IC101 | D-4 | D004 | D-7 |
| IC201 | C-3 | D021-1 | B-5 |
| IC301 | F-6 | D021-2 | B-5 |
| IC302 | F-8 | D022-1 | C-6 |
| IC401 | G-9 | D022-2 | B-5 |
| IC402 | F-3 | D101 | D-5 |
| Q001 | C-7 | D201 | D-3 |
| Q002 | D-8 | D202 | H-1 |
| Q003 | D-8 | D301 | E-3 |
| Q004 | E-8 | D302 | F-5 |
| Q021 | D-7 | D303 | F-5 |
| Q022 | C-5 | D304 | E-4 |
| Q023 | D-7 | D305 | E-4 |
| Q024 | C-4 | D306 | E-4 |
| Q028 | B-5 | D307 | E-4 |
| Q029 | B-6 | D308 | E-4 |
| Q101 | D-6 | D309 | E-4 |
| Q201 | D-3 | D310 | E-5 |
| Q202 | D-3 | D311 | E-5 |
| Q301 | E-3 | D312 | E-5 |
| Q302 | F-7 | D314 | E-6 |
| Q303 | F-7 | D315 | E-6 |
| Q304 | F-7 | D316 | E-5 |
| Q305 | F-7 | D317 | E-6 |
| Q306 | F-7 | D319 | F-3 |
| Q307 | F-7 | D320 | G-4 |
| Q309 | F-9 | D401 | H-9 |
| Q310 | F-9 | D402 | E-3 |
| Q311 | E-8 | D403 | E-3 |
| Q312 | E-8 | D404 | F-2 |
| Q401 | E-2 | | |
| Q402 | E-2 | | |
| D001 | C-8 | | |
| D002 | C-7 | | |
| D003 | C-8 | | |



2-2. SCHEMATIC DIAGRAM . See page 13 for note.




9
10
11
12
13
14
15
[10 KEY BOARD (1/2)]
[CONTROL BOARD]
[LAMP BOARD]
[ANTENNA BOARD (1/2)]
PLL CONTROLLER
LCD
ST-707RM, 909R ONLY
707RM, 909R ONLY

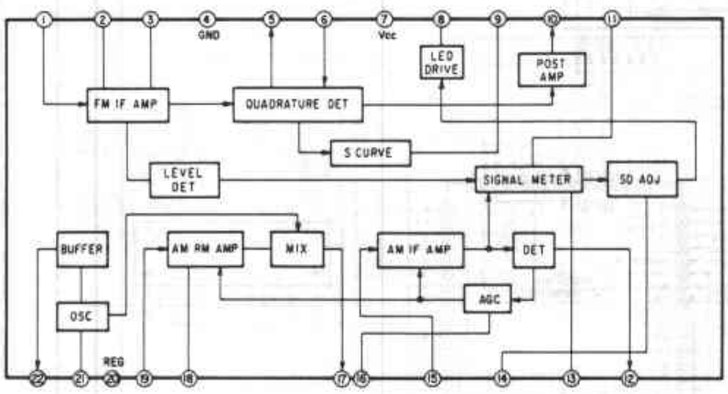
**Note:**

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- *A-B: See page 3 "Note on ceramic filter replacement and diode connection".
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under detuned conditions with a VOM (50kΩ/V).
  No Mark: FM Mode
- Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken to ground in no-signal mode by using oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- ▬▬ : B+ bus.
- ▬ ▬ : B− bus.
- ▭ : adjustment for repair.
- → : FM signal path.
- ➡ : MW signal path.
- ⇨ : LW signal path.

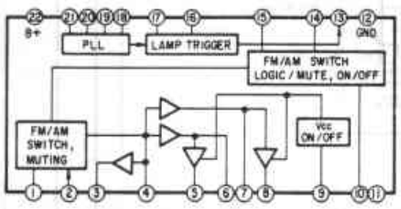
- Switches:

| Ref. No. | Switch | Position |
|---|---|---|
| S301 | 1 | OFF |
| S302 | 2 | OFF |
| S303 | 3 | OFF |
| S304 | 4 | OFF |
| S305 | 5 | OFF |
| S306 | 6 | OFF |
| S307 | 7 | OFF |
| S308 | 8 | OFF |
| S309 | 9 | OFF |
| S310 | MEMORY | OFF |
| S311 | 0 | OFF |
| S312 | ENTER | OFF |
| S313 | MEMORY SCAN | OFF |
| S314 | TUNING + | OFF |
| S315 | TUNING - | OFF |
| S316 | BAND | OFF |
| S317 | STEREO MUTING | OFF |

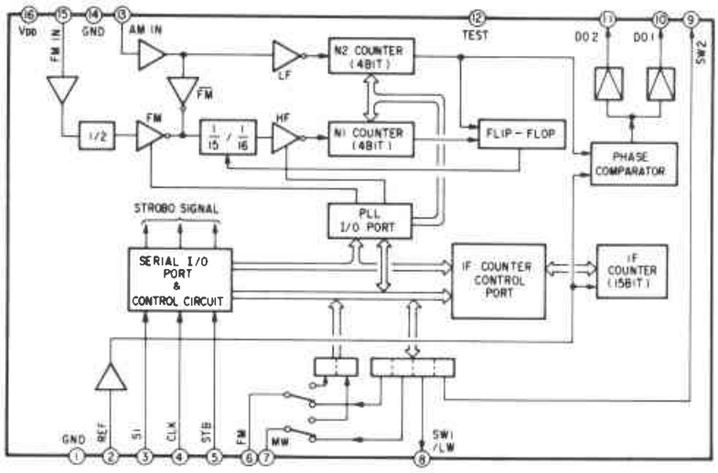
**IC101 LA1265**




**IC201 LA3401**

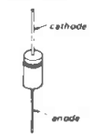


**IC302 TC9172P**



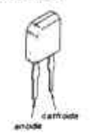

- **Semiconductor Lead Layouts**

**US1060M**
**HZS6C3L**

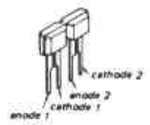



**KV1310**

**PH302C**



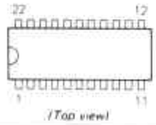

**KV1236Z**



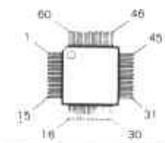

**SEL1210W**

**TC9172AP**

**LA1265**
**LA3401**

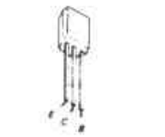



**TC9302AF-039**

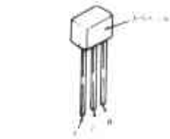



**2SK246-GR2**

**2SC2724-C**
**2SC2724-D**
**2SC3391**
**2SC634SP**




**BA1A4M**
**BA1F4Z**
**BN1A4M**
**BN1F4Z**

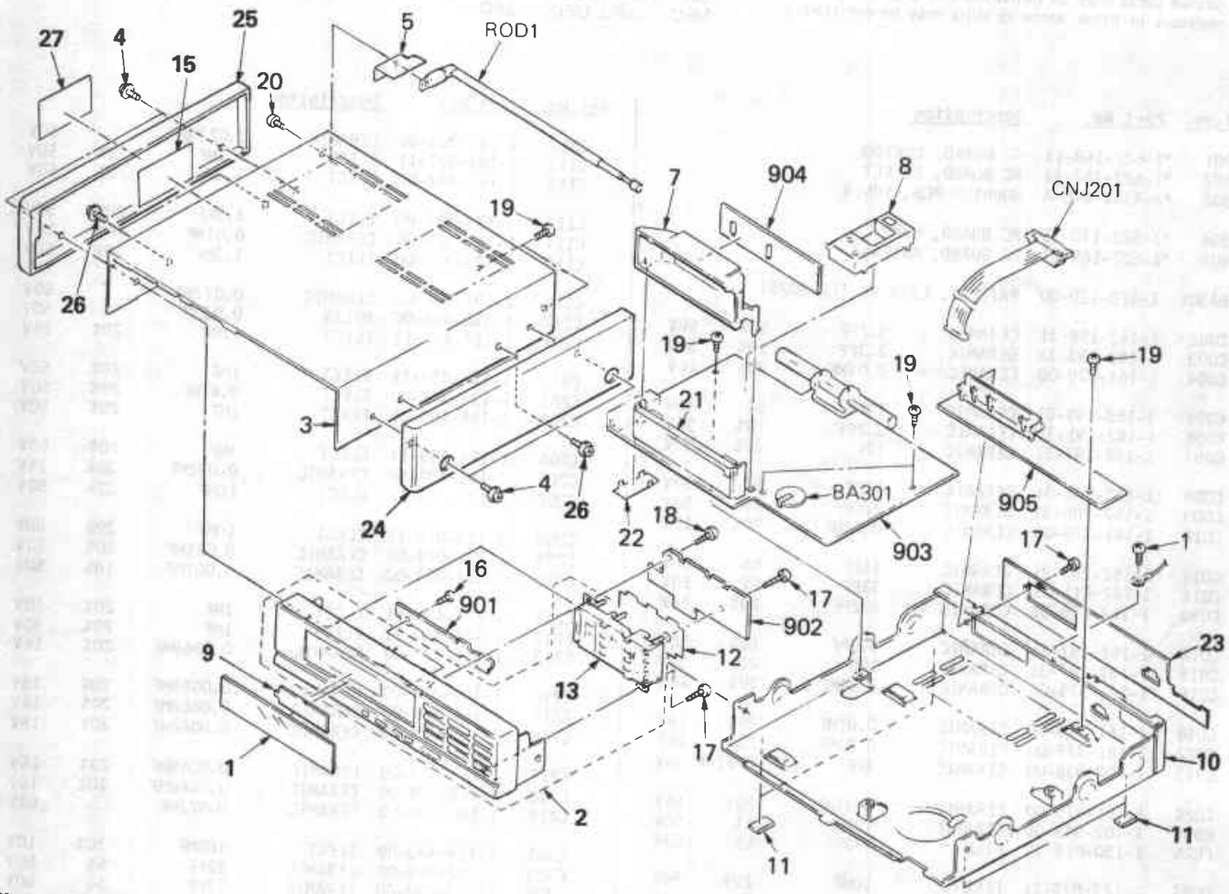


# SECTION 3
# EXPLODED VIEWS

**NOTE:**

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts Example:
  (RED) . . . KNOB, BALANCE (WHITE)
  ↑ Cabinet's Color ↑ Parts Color

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.




| No. | Part No. | Description | Remarks |
|---|---|---|---|
| 1 | 4-920-874-01 | PLATE (ST), ORNAMENTAL | |
| 2 | X-4919-644-1 | PANEL ASSY, FRONT | 13 |
| 3 | 4-920-137-01 | CASE | |
| 4 | 4-886-821-51 | (ST-606M)...SCREW (CASE) (M3X14) | |
| 5 | *4-919-611-01 | (UK).....BRACKET, ANT | |
| 6 | *4-909-705-01 | PLATE, SHIELD | |
| 7 | *4-917-275-01 | HOUSE, LAMP | |
| 8 | *4-874-704-01 | CASE, SHIELD | |
| 9 | 4-920-872-01 | PLATE (ST), INDICATION | |
| 10 | *4-919-617-01 | CHASSIS | |
| 11 | 4-919-608-01 | FOOT | |
| 12 | *4-919-607-01 | SPACER | |
| 13 | *4-919-614-01 | RETAINER, BUTTON | |
| 15 | *4-922-715-01 | (UK)...LABEL, MODEL NUMBER | |
| 16 | 7-685-133-19 | SCREW +P 2.6X6 TYPE2 SLIT | |
| 17 | 7-685-647-79 | (UK)...SCREW +BVTP 3X10 TYPE2 N-S | |
| 18 | 7-685-646-79 | SCREW +BVTP 3X8 TYPE2 N-S | |
| 19 | 7-682-147-01 | SCREW +BVTT 3X6 (S) | |

| No. | Part No. | Description | Remarks |
|---|---|---|---|
| 20 | 7-682-547-09 | (UK)...SCREW +B 3X6 | |
| 21 | *4-909-633-01 | ILLUMINATOR | |
| 22 | *4-920-149-01 | PLATE (A), SHIELD | |
| 23 | *4-919-613-71 | (AEP)...COVER, REAR | |
| | *4-919-613-11 | (UK)....COVER, REAR | |
| 24 | 4-922-759-01 | (ST-606M)...PLATE (A-RIGHT), SIDE | |
| 25 | 4-922-760-01 | (ST-606M)...PLATE (A-LEFT), SIDE | |
| 26 | 3-704-366-01 | (ST-606)....SCREW (CASE) (M3X8) | |
| 27 | *4-922-754-01 | (AEP).....LABEL, MODEL NUMBER | |
| 901 | *1-622-168-11 | PC BOARD, CONTROL | |
| 902 | *1-622-167-11 | PC BOARD, 10 KEY | |
| 903 | *A-4351-648-A | MOUNTED PCB, TUNER | |
| 904 | *1-622-170-11 | PC BOARD, LAMP | |
| 905 | *1-622-169-11 | PC BOARD, ANTENNA | |
| BA301 | 1-528-120-00 | BATTERY, LITHIUM (CR-2025) | |
| CNJ201 | 1-559-817-11 | CORD (WITH CONNECTOR) 10P | |
| ROD1 | 1-501-270-00 | (UK)...ANTENNA, TELESCOPIC | |

# SECTION 4
# ELECTRICAL PARTS LIST

**NOTE:**

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA...,
UPC...: μPC, UPD...: μPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

| Ref.No. | Part No. | Description | | | |
|---|---|---|---|---|---|
| 901 | *1-622-168-11 | PC BOARD, CONTROL | | | |
| 902 | *1-622-167-11 | PC BOARD, 10 KEY | | | |
| 903 | *A-4351-648-A | MOUNTED PCB, TUNER | | | |
| 904 | *1-622-170-11 | PC BOARD, LAMP | | | |
| 905 | *1-622-169-11 | PC BOARD, ANTENNA | | | |
| BA301 | 1-528-120-00 | BATTERY, LITHIUM (CR-2025) | | | |
| C002 | 1-162-198-31 | CERAMIC | 8.2PF | 10% | 50V |
| C003 | 1-162-193-31 | CERAMIC | 3.3PF | 10% | 50V |
| C004 | 1-161-379-00 | CERAMIC | 0.01MF | 20% | 16V |
| C005 | 1-162-199-31 | CERAMIC | 10PF | 5% | 50V |
| C006 | 1-162-191-31 | CERAMIC | 2.2PF | 10% | 50V |
| C007 | 1-162-187-31 | CERAMIC | 1PF | 20% | 50V |
| C008 | 1-162-203-31 | CERAMIC | 15PF | 5% | 50V |
| C009 | 1-162-286-31 | CERAMIC | 220PF | 10% | 50V |
| C010 | 1-161-379-00 | CERAMIC | 0.01MF | 20% | 16V |
| C011 | 1-162-203-31 | CERAMIC | 15PF | 5% | 50V |
| C012 | 1-162-211-31 | CERAMIC | 33PF | 5% | 50V |
| C013 | 1-162-198-31 | CERAMIC | 8.2PF | 10% | 50V |
| C014 | 1-162-197-31 | CERAMIC | 6.8PF | 10% | 50V |
| C015 | 1-162-187-31 | CERAMIC | 1PF | 20% | 50V |
| C016 | 1-161-379-00 | CERAMIC | 0.01MF | 20% | 16V |
| C018 | 1-161-379-00 | CERAMIC | 0.01MF | 20% | 16V |
| C022 | 1-161-379-00 | CERAMIC | 0.01MF | 20% | 16V |
| C023 | 1-102-936-00 | CERAMIC | 3PF | 0.25PF | 50V |
| C024 | 1-161-379-00 | CERAMIC | 0.01MF | 20% | 16V |
| C025 | 1-102-949-00 | CERAMIC | 12PF | 5% | 50V |
| C026 | 1-130-014-00 | FILM | 470PF | 5% | 50V |
| C027 | 1-123-875-11 | ELECT | 10MF | 20% | 50V |
| C030 | 1-101-890-00 | CERAMIC | 75PF | 5% | 50V |
| C031 | 1-161-379-00 | CERAMIC | 0.01MF | 20% | 16V |
| C033 | 1-102-816-00 | CERAMIC | 120PF | 5% | 50V |
| C034 | 1-130-047-00 | FILM | 180PF | 5% | 50V |
| C035 | 1-102-942-00 | CERAMIC | 5PF | 0.5PF | 50V |
| C042 | 1-161-494-00 | CERAMIC | 0.022MF | 30% | 25V |
| C043 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V |
| C044 | 1-161-327-00 | CERAMIC | 0.0033MF | 20% | 16V |
| C046 | 1-161-379-00 | CERAMIC | 0.01MF | 20% | 16V |
| C101 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V |
| C102 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V |
| C103 | 1-124-499-11 | ELECT | 1MF | 20% | 50V |
| C104 | 1-123-875-11 | ELECT | 10MF | 20% | 50V |
| C105 | 1-162-211-31 | CERAMIC | 33PF | 5% | 50V |
| C106 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V |
| C107 | 1-123-875-11 | ELECT | 10MF | 20% | 50V |
| C108 | 1-161-379-00 | CERAMIC | 0.01MF | 20% | 16V |
| C110 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V |
| C111 | 1-124-927-11 | ELECT | 4.7MF | 20% | 50V |
| C112 | 1-123-382-00 | ELECT | 3.3MF | 20% | 50V |
| C113 | 1-123-382-00 | ELECT | 3.3MF | 20% | 50V |
| C114 | 1-161-379-00 | CERAMIC | 0.01MF | 20% | 16V |
| C115 | 1-123-382-00 | ELECT | 3.3MF | 20% | 50V |
| C116 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V |
| C117 | 1-130-489-00 | MYLAR | 0.033MF | 5% | 50V |
| C201 | 1-124-477-11 | ELECT | 47MF | 20% | 16V |
| C202 | 1-124-499-11 | ELECT | 1MF | 20% | 50V |
| C203 | 1-124-902-00 | ELECT | 0.47MF | 20% | 50V |
| C204 | 1-124-499-11 | ELECT | 1MF | 20% | 50V |
| C205 | 1-124-499-11 | ELECT | 1MF | 20% | 50V |
| C206 | 1-161-494-00 | CERAMIC | 0.022MF | 30% | 25V |
| C207 | 1-123-875-11 | ELECT | 10MF | 20% | 50V |
| C208 | 1-123-875-11 | ELECT | 10MF | 20% | 50V |
| C209 | 1-102-074-00 | CERAMIC | 0.001MF | 10% | 50V |
| C210 | 1-102-074-00 | CERAMIC | 0.001MF | 10% | 50V |
| C211 | 1-124-499-11 | ELECT | 1MF | 20% | 50V |
| C212 | 1-124-499-11 | ELECT | 1MF | 20% | 50V |
| C213 | 1-161-329-00 | CERAMIC | 0.0068MF | 20% | 16V |
| C214 | 1-161-329-00 | CERAMIC | 0.0068MF | 20% | 16V |
| C215 | 1-161-329-00 | CERAMIC | 0.0068MF | 20% | 16V |
| C216 | 1-161-329-00 | CERAMIC | 0.0068MF | 20% | 16V |
| C217 | 1-161-329-00 | CERAMIC | 0.0068MF | 20% | 16V |
| C218 | 1-161-329-00 | CERAMIC | 0.0068MF | 20% | 16V |
| C219 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V |
| C301 | 1-124-443-00 | ELECT | 100MF | 20% | 10V |
| C303 | 1-102-959-00 | CERAMIC | 22PF | 5% | 50V |
| C304 | 1-102-959-00 | CERAMIC | 22PF | 5% | 50V |
| C305 | 1-124-499-11 | ELECT | 1MF | 20% | 50V |
| C306 | 1-123-875-11 | ELECT | 10MF | 20% | 50V |
| C307 | 1-124-463-00 | ELECT | 0.1MF | 20% | 50V |
| C308 | 1-124-477-11 | ELECT | 47MF | 20% | 16V |
| C309 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V |
| C310 | 1-123-875-11 | ELECT | 10MF | 20% | 50V |
| C311 | 1-136-171-00 | FILM | 0.33MF | 5% | 50V |
| C312 | 1-130-487-00 | MYLAR | 0.022MF | 5% | 50V |
| C313 | 1-124-252-00 | ELECT | 0.33MF | 20% | 50V |
| C314 | 1-136-171-00 | FILM | 0.33MF | 5% | 50V |
| C315 | 1-130-487-00 | MYLAR | 0.022MF | 5% | 50V |
| C316 | 1-124-252-00 | ELECT | 0.33MF | 20% | 50V |
| C318 | 1-161-379-00 | CERAMIC | 0.01MF | 20% | 16V |
| C319 | 1-161-379-00 | CERAMIC | 0.01MF | 20% | 16V |
| C320 | 1-161-379-00 | CERAMIC | 0.01MF | 20% | 16V |
| C503 | 1-162-199-31 | CERAMIC | 10PF | 5% | 50V |

| Ref.No. | Part No. | Description |
|---|---|---|
| CF101 | 1-567-389-11 | FILTER, CERAMIC |
| CF102 | 1-567-389-11 | FILTER, CERAMIC |
| CF104 | 1-527-981-00 | FILTER, CERAMIC |
| CNJ201 | 1-559-817-11 | CORD (WITH CONNECTOR) |
| CNP001 | *1-560-060-00 | (UK)...PIN, CONNECTOR 2P |
| CNP002 | *1-564-337-00 | PIN, CONNECTOR 3P |
| CNP101 | *1-560-060-00 | PIN, CONNECTOR 2P |
| CNP201 | *1-564-336-00 | PIN, CONNECTOR 2P |
| CNP301 | *1-560-063-00 | PIN, CONNECTOR 5P |
| CNP302 | *1-560-064-00 | PIN, CONNECTOR 6P |
| CNP303 | *1-564-341-11 | PIN, CONNECTOR 7P |
| CT021 | 1-141-227-00 | CAP, CERAMIC TRIMMER |
| CT022 | 1-141-227-00 | CAP, CERAMIC TRIMMER |
| CT023 | 1-141-227-00 | CAP, CERAMIC TRIMMER |
| CT024 | 1-141-227-00 | CAP, CERAMIC TRIMMER |
| D001 | 8-719-918-45 | DIODE KV1310 |
| D002 | 8-719-000-26 | DIODE US1060M |
| D003 | 8-719-918-45 | DIODE KV1310 |
| D004 | 8-719-918-45 | DIODE KV1310 |
| D021 | 8-719-923-64 | DIODE KV1236Z |
| D022 | 8-719-923-64 | DIODE KV1236Z |
| D101 | 8-719-000-26 | DIODE US1060M |
| D201 | 8-719-000-26 | DIODE US1060M |
| D202 | 8-719-303-13 | DIODE SEL1210W |
| D301 | 8-719-933-41 | DIODE HZS6C3L |
| D302 | 8-719-000-26 | DIODE US1060M |
| D303 | 8-719-000-26 | DIODE US1060M |
| D304 | 8-719-000-26 | DIODE US1060M |
| D305 | 8-719-000-26 | DIODE US1060M |
| D306 | 8-719-000-26 | DIODE US1060M |
| D307 | 8-719-000-26 | DIODE US1060M |
| D308 | 8-719-000-26 | DIODE US1060M |
| D309 | 8-719-000-26 | DIODE US1060M |
| D310 | 8-719-000-26 | DIODE US1060M |
| D311 | 8-719-000-26 | DIODE US1060M |
| D312 | 8-719-000-26 | DIODE US1060M |
| D314 | 8-719-000-26 | DIODE US1060M |
| D315 | 8-719-000-26 | DIODE US1060M |
| D316 | 8-719-000-26 | DIODE US1060M |
| D317 | 8-719-000-26 | DIODE US1060M |
| D319 | 8-719-000-26 | DIODE US1060M |
| D320 | 8-719-000-26 | DIODE US1060M |
| FL101 | 1-235-126-00 | ENCAPSULATED COMPONENT |
| IC101 | 8-759-801-81 | IC LA1265 |
| IC201 | 8-759-801-80 | IC LA3401 |
| IC301 | 8-759-230-50 | IC TC9302AF-039 |
| IC302 | 8-759-230-16 | IC TC9172AP |
| IFT101 | 1-404-659-11 | COIL, DISCRIMINATOR |
| IFT102 | 1-404-713-11 | TRANSFORMER, IF |
| L001 | *1-422-336-11 | COIL, AIR-CORE |
| L002 | *1-422-040-00 | COIL, AIR-CORE |
| L003 | *1-422-081-00 | COIL (WITH CORE) |
| L004 | *1-422-039-00 | COIL, AIR-CORE |
| L005 | 1-459-396-00 | COIL (WITH CORE) |
| L022 | 1-402-151-11 | ANTENNA, FERRITE-ROD (LW/MW) |
| L023 | 1-406-089-11 | COIL (OSC) |
| L025 | 1-406-207-11 | COIL, LW (OSC) |
| L101 | 1-408-930-00 | INDUCTOR 33MMH |
| L201 | 1-408-924-00 | INDUCTOR 10MMH |
| L202 | 1-408-924-00 | INDUCTOR 10MMH |
| L203 | 1-410-601-21 | INDUCTOR 100UH |
| LCD1 | 1-807-453-41 | DISPLAY PANEL, LIQUID CRYSTAL |
| PL001 | 1-518-527-51 | LAMP, PILOT |
| PL002 | 1-518-527-51 | LAMP, PILOT |
| Q001 | 8-729-304-38 | TRANSISTOR 2SC3391 |
| Q002 | 8-729-304-38 | TRANSISTOR 2SC3391 |
| Q003 | 8-729-672-42 | TRANSISTOR 2SC2724-C |
| Q004 | 8-729-672-42 | TRANSISTOR 2SC2724-C |
| Q021 | 8-729-115-15 | TRANSISTOR BN1A4M |
| Q022 | 8-729-115-33 | TRANSISTOR BN1F4Z |
| Q023 | 8-729-115-15 | TRANSISTOR BN1A4M |
| Q024 | 8-729-115-33 | TRANSISTOR BN1F4Z |
| Q028 | 8-729-115-93 | TRANSISTOR BA1F4Z |
| Q029 | 8-729-115-79 | TRANSISTOR BA1A4M |
| Q101 | 8-729-672-43 | TRANSISTOR 2SC2724-D |
| Q201 | 8-729-115-79 | TRANSISTOR BA1A4M |
| Q202 | 8-729-115-79 | TRANSISTOR BA1A4M |
| Q301 | 8-729-600-27 | TRANSISTOR 2SC634SP |
| Q302 | 8-729-600-27 | TRANSISTOR 2SC634SP |
| Q303 | 8-729-115-79 | TRANSISTOR BA1A4M |
| Q304 | 8-729-115-15 | TRANSISTOR BN1A4M |
| Q305 | 8-729-115-15 | TRANSISTOR BN1A4M |
| Q306 | 8-729-115-79 | TRANSISTOR BA1A4M |
| Q307 | 8-729-115-79 | TRANSISTOR BA1A4M |
| Q309 | 8-729-201-56 | TRANSISTOR 2SK246GR2 |
| Q310 | 8-729-600-27 | TRANSISTOR 2SC634SP |
| Q311 | 8-729-201-56 | TRANSISTOR 2SK246GR2 |
| Q312 | 8-729-600-27 | TRANSISTOR 2SC634SP |
| R001 | 1-249-441-11 | CARBON 100K 5% 1/4W |
| R002 | 1-215-491-00 | CARBON 820K 5% 1/4W |
| R003 | 1-249-401-11 | CARBON 47 5% 1/4W |
| R004 | 1-249-401-11 | CARBON 47 5% 1/4W |
| R005 | 1-249-441-11 | CARBON 100K 5% 1/4W |
| R006 | 1-215-491-00 | CARBON 820K 5% 1/4W |
| R007 | 1-249-411-11 | CARBON 330 5% 1/4W |
| R008 | 1-249-405-11 | CARBON 100 5% 1/4W |
| R009 | 1-249-429-11 | CARBON 10K 5% 1/4W |
| R010 | 1-249-429-11 | CARBON 10K 5% 1/4W |
| R011 | 1-249-422-11 | CARBON 2.7K 5% 1/4W |
| R012 | 1-249-431-11 | CARBON 15K 5% 1/4W |
| R013 | 1-215-483-00 | CARBON 390K 5% 1/4W |
| R014 | 1-249-405-11 | CARBON 100 5% 1/4W |
| R021 | 1-249-429-11 | CARBON 10K 5% 1/4W |

| Ref.No. | Part No. | Description | | | |
|---|---|---|---|---|---|
| R024 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R025 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R029 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R030 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R036 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W |
| R037 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R038 | 1-247-903-00 | CARBON | 1M | 5% | 1/4W |
| R101 | 1-215-491-00 | CARBON | 820K | 5% | 1/4W |
| R102 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W |
| R103 | 1-249-434-11 | CARBON | 27K | 5% | 1/4W |
| R104 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/4W |
| R105 | 1-249-426-11 | CARBON | 5.6K | 5% | 1/4W |
| R106 | 1-249-404-00 | CARBON | 82 | 5% | 1/4W |
| R107 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R108 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R109 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W |
| R110 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/4W |
| R111 | 1-249-420-11 | CARBON | 1.8K | 5% | 1/4W |
| R201 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/4W |
| R202 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R203 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R204 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R205 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R206 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R207 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R208 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R209 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W |
| R210 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W |
| R211 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R212 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R302 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W |
| R303 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W |
| R304 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W |
| R305 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W |
| R306 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W |
| R307 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/4W |
| R308 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R309 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R310 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W |
| R311 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W |
| R312 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R313 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W |
| R314 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R315 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W |
| R316 | 1-249-416-11 | CARBON | 820 | 5% | 1/4W |
| R317 | 1-249-410-11 | CARBON | 270 | 5% | 1/4W |
| R318 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R319 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |

| Ref.No. | Part No. | Description | | | |
|---|---|---|---|---|---|
| R320 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R321 | 1-247-885-00 | CARBON | 180K | 5% | 1/4W |
| R322 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W |
| R323 | 1-249-416-11 | CARBON | 820 | 5% | 1/4W |
| R324 | 1-249-410-11 | CARBON | 270 | 5% | 1/4W |
| R325 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W |
| R326 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R327 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R401 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W |
| R402 | 1-215-476-00 | CARBON | 200K | 5% | 1/4W |
| R403 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W |
| R404 | 1-249-411-11 | CARBON | 330 | 5% | 1/4W |
| R405 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R406 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R407 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R408 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R409 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R411 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R412 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R413 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R414 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R415 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R416 | 1-247-903-00 | CARBON | 1M | 5% | 1/4W |
| R417 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/4W |
| R418 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| ROD1 | 1-501-270-00 | (UK)...ANTENNA, TELESCOPIC | | | |
| TB001 | *1-537-138-21 | (AEP)...TERMINAL BOARD (ANT) | | | |
| TB001 | *1-536-708-00 | (UK)....TERMINAL BOARD, PUSH 4P | | | |
| RT101 | 1-228-996-00 | RES, ADJ, CARBON 47K | | | |
| S301 | 1-554-303-21 | SWITCH, KEY BOARD | | | |
| S302 | 1-554-303-21 | SWITCH, KEY BOARD | | | |
| S303 | 1-554-303-21 | SWITCH, KEY BOARD | | | |
| S304 | 1-554-303-21 | SWITCH, KEY BOARD | | | |
| S305 | 1-554-303-21 | SWITCH, KEY BOARD | | | |
| S306 | 1-554-303-21 | SWITCH, KEY BOARD | | | |
| S307 | 1-554-303-21 | SWITCH, KEY BOARD | | | |
| S308 | 1-554-303-21 | SWITCH, KEY BOARD | | | |
| S309 | 1-554-303-21 | SWITCH, KEY BOARD | | | |
| S310 | 1-554-303-21 | SWITCH, KEY BOARD | | | |
| S311 | 1-554-303-21 | SWITCH, KEY BOARD | | | |
| S312 | 1-554-303-21 | SWITCH, KEY BOARD | | | |
| S313 | 1-570-876-11 | SWITCH, KEY BOARD | | | |
| S314 | 1-570-876-11 | SWITCH, KEY BOARD | | | |
| S315 | 1-570-876-11 | SWITCH, KEY BOARD | | | |
| S316 | 1-570-876-11 | SWITCH, KEY BOARD | | | |
| S317 | 1-570-876-11 | SWITCH, KEY BOARD | | | |
| X201 | 1-567-250-11 | OSCILLATOR, CERAMIC | | | |
| X301 | 1-567-736-11 | VIBRATOR, CRYSTAL | | | |

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